## IN THE CLAIMS:

Cancel claims 1-16 and insert new claims 17-31, attached hereto on separate sheets.

Please add the <u>Abstract of the Disclosure</u> attached hereto on a separate sheet.

## REMARKS

By this Preliminary Amendment, the application has been amended to conform with U.S. practice. The cross-reference to the related applications has been inserted on page 1. Original claims 1-16 are being replaced by new claims 17-31, identical to original claims 1-12 and 14-16, except the multiple dependency has been removed. No new matter has been introduced. In addition, an Abstract is being provided. Entry of this amendment is respectfully requested.

Respectfully submitted,

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Express Mail No. <u>EL 769 391 441 US</u>
Date of Deposit <u>May 16, 2001</u>

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Lisa L. Vulpis

Encls.: New claims; Abstract

17. A method of producing nanocapsules having a diameter of from 50 nm to 10  $\mu m$ ,

diameter characterized in that

liposomes are produced which are coated with a polymer P1 by binding the polymer P1 to the liposome surface in an aqueous solution, and the coated polymer P1 then is covalently crosslinked in an aqueous solution with a polymer P2 which is different from polymer P1, and additional polymer layers are optionally coated by crosslinking.

- 18. The method according to claim 17, characterized in that the liposomes are dissolved subsequent to crosslinking the polymers, preferably by leaching with a detergent.
- 19. The method according to claim 17, characterized in that liposomes are used as starting material which carry biologically active compounds or compounds of a detection system, which compounds remain in the nanocapsules when performing the method.
- 20. The method according to claim 17, characterized in that

those polymers are used as water-soluble polymers P1 and P2 which have amino, carboxyl, thiol, hydrazo, hydroxy, acidic hydrogen, aldehyde and/or active ester groups or combinations of these groups as functional groups, and which do not themselves undergo formation of micellar or vesicular structures.

- 21. The method according to claim 17, characterized in that auxiliary agents are used to crosslink polymer P1 with the liposomes or polymer P1 with polymer P2.
- 22. The method according to claim 21, characterized in that isothiocyanates, isocyanates, acylazides, N-hydroxysuccinimide esters, sulfonyl chlorides, aldehydes, epoxides, carbonates, imidoesters, carbodiimides, anhydrides, haloacetyls, alkyl halides, maleimides, aziridines, pyridyldisulfides, diazoalkanes, diazoacetyls, carbonyldiimidazoles, N-hydroxysuccinimidylchloroformiates, or compounds containing these functional groups in suitable combinations are used as auxiliary agents.
- 23. The method according to claim 17, characterized in that the water-soluble polymers P1 or P2 have chelating or chelate-binding properties.

- 24. The method according to claim 17, characterized in that the polymers P1 and/or P2 are proteins.
- 25. The method according to claim 17, characterized in that the polymers P1 and/or P2 are carbohydrates.
- 26. The method according to claims 17, characterized in that the water-soluble polymers P1 and/or P2 are synthetic polymers.
- 27. The method according to claim 17, characterized in that the nanocapsules obtained are modified at their surface, preferably using poly(ethylene glycol), proteins, peptides, or hormones, with poly(ethylene glycol) being particularly preferred.
- 28. Nanocapsules, produced according to claims 17.
- 29. Nanocapsules having a diameter of from 50 nm to 10  $\mu$ m, characterized in that the coat layer thereof is comprised of at least two different polymers P1 and P2 crosslinked with each other.

30. Use of the nanocapsules according to claim 17 in the production of pharmaceutical formulations used in the application of active substances.

END A2

31. Use of the nanocapsules according to claim 17 in biochemical diagnostics.

Panzner - PCT - amended claims